

IN THE CLAIMS:

Please cancel Claims 11-22 without prejudice to or disclaimer of their subject matter.

Please amend Claims 1, 5-7, and 9 as follows. Note that all claims currently pending in the application are being reproduced below for the Examiner's convenience.

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1. (Currently Amended) A DC motor control method in a device which drives a mechanism by using a DC motor as a power source, comprising:  
a step of discontinuously reducing a velocity command value ~~to~~ of said motor ~~upon~~ within a deceleration region ~~of said motor~~.

2. (Original) The DC motor control method according to claim 1, wherein when said mechanism arrives at a predetermined position, the velocity command value to said motor is discontinuously reduced.

3. (Original) The DC motor control method according to claim 2, wherein said velocity command value represents a curve profile in a period before said mechanism arrives at the predetermined position, and said velocity command value is a constant value in a period after said mechanism arrives at the predetermined position.

4. (Original) The DC motor control method according to claim 3, wherein said curve profile is expressed by a cubic function.

5. (Currently Amended) A program product for realizing a DC motor control method in a device which drives a mechanism by using a DC motor as a power source, including:

a' program code for realizing a process for discontinuously reducing a velocity command value ~~to~~ of said motor ~~upon~~ within a deceleration region ~~of said motor~~.

6. (Currently Amended) A storage medium storing a program for realizing a DC motor control method in a device which drives a mechanism by using a DC motor as a power source, storing:

program code for realizing a process for discontinuously reducing a velocity command value ~~to~~ of said motor ~~upon~~ within a deceleration region ~~of said motor~~.

7. (Currently Amended) A DC motor control apparatus in a device which drives a mechanism by using a DC motor as a power source, comprising:

first velocity command value generation means for generating a velocity command value to said motor in accordance with a first function;

second velocity command value generation means for generating a velocity command value to said motor in accordance with a second function having an initial value less

than a minimum value of the velocity command value generated by said first velocity command value generation means; and

change means for changing the velocity command value ~~to~~ of said motor generated by said first velocity command value generation means to the velocity command value generated by said second velocity command value generation means, at predetermined timing within a deceleration region.

a' 8. (Original) The DC motor control apparatus according to claim 7, wherein said change means changes the velocity command value to said motor when said mechanism arrives at a predetermined position.

9. (Currently Amended) The DC motor control apparatus according to claim 7, wherein ~~a curve profile is represented by said first function~~ represents a curve profile, and ~~a constant value is outputted in accordance with said second function~~ outputs a constant value.

10. (Original) The DC motor control apparatus according to claim 9, wherein said first function is a cubic function.

Claims 11-22 are cancelled herein.

[ Please add Claims 23 and 24 as follows: ]

a1 --23. (New) The DC motor control method according to claim 3, wherein said curve profile has a steep slope portion for reducing the velocity command value at a relatively large rate, and a gentle slope portion for reducing the velocity command at a relatively small rate.

24. (New) The DC motor control apparatus according to claim 9, wherein said curve profile has a steep slope portion for reducing the velocity command value at a relatively large rate, and a gentle slope portion for reducing the velocity command at a relatively small rate.--

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